U. S. DEPARTMENT OF AGRICULTURE BUREAU OF BIOLOGICAL SURVEY

Form Bi-689

FIELD DIARY

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(Official title.)

Period, April 3 to May 5

1931 NOTICE

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apri3,1931 For Walle Jan, 76, 7,05 87.4 1. 4 arriest Elie, 2007. 45 Will. Upor 5 and well Ja 6. Wind Duce, sign Ci for, 7 Suntalestativas, I maken i si years old morphel Et ibi when led 69 min l 10/2 1 worm about 9,00 : 11 Winn, D. a. Shoumaker, To B. Hart Farchuse Hornifsook Jon Inter Crean Ranch where we arrived for dunier. In afternoon a try by auto was made to too top & the Santa Catalinas in ets bulinty of Foldier leamp and Tummerhaven. Forge Jorder Dertructure howing of modrono, manganita,

apr. 7 con. Fuerens hypoteura, mountain waliozany whito fir, Fambil alk dogwood asten snowberry diereary on middle Hopes in brush. Some cliff rocalso obour I brown . Apr. 8, From Inter Oceanor Kumon Ranch wale a long try over the northern soldpes of the Santa Catalias working up wito eta lower fact of the yellow pines. about 24 white tould der were noted In several places owned howing to deer of plants with existended was wident on the unddle Hopes, gradually duminohy lower afr. 9. another by ochoon poets of northern slopes of Ita Certalinay

2/2.9, cen. returning to ranch about 3 P.M. Perpand a bruf report and musgrave and I drove to his place near thoung arroing shorely before undinglet. Opr. 10. Phoeny to Pine Flat 20 miles routh of Williams by auto arriving shortly before land, Ofr. 11. Vine Hat Made howe try over ranges south of Pine Flat, working down under the Deformers, Holes in sand found by disintegrated sandstone near Sand Flat. forage. This is yearlong range for mule dur and catter and many shows are hard his among there are the oak bruk Querens turbunda according to

Musquare, Jumpered monospuma, Cecanothus greggi mountain walugary Tarrya wrighte arelostoff Jugan (smooth leaved) cliff rose, a gray havy - haved manganta is little Trovol France including much gramma in good condition. Sand Flat, Had lunch at a cabin at Sark Flat about 26 miles south of Welliams, This is well down in the pringer al jumpa bell with cactures, abundant in a loove wandstone formation and abundant holy & kargaroo rate Some of trail just north of the holing and attens in the loose voil about clumps of Buther. a good place for general collecting archolaphylos, Ino oforces action

along some of the ridges Jarage, a live Philadelphis heavily browned noted wear Sard Flat, In this general section heavy browing of Rhamme cracea noted, also some browsing of yellow pine apparently by dev. afor 12 (Dun), Pine Flot to Flanslaff. another ride out from Vine Flat and conditions sumlar to youteday noted. Drove to Hazotaff in evening. Opr. 13 (Mon), Playolaff to By RS. on loconus Mat. touth, analogie Obverved a few tunches Trett usually numbering eight or 10 logelier south of lehavery Pars on anderson Mosa,

apr. 13 con., aulilope Have moreand rapidly in auduson Mera in part few years and are estimated by Musque al actions to minder aroad 3000, Forage brown ty andelope. Jumperus monotperua. Phus bulobala Vitis augunia Celingsochamus Julienza (vobe weed) Below By RS for some difference lines Saworth clift rose soilin vy organists out blear when Hay John antitope Saw several small Simelus rumbing up to 8. Moth of the antito for ale rathers ocattered the \$4's probably prepar to favor. Mort or purpos all

Maxua, Michaels reports feeled in Sycamore less 25 mi, SE & Williams

John 14 cm.

John bold bod apparently

Jen bolled very newelt by

predator annual loyote

had chand the shelder but

stomach contrals four were

still moith, this was a f.

Raven smith and other local

forest officers estewal the

mumber of decorable ope in this

general vettin at 2500 to

shed corn sheaths in howings

shed corn sheaths in howings

apparently there is inquitined

Joone reduction of andlops

to save undue distruction

Jorage.

Farage for antilops theory

browing of some fungious will

end octors man before parently

mutowall leprosthamus, Heavy

you. 14 con. and destructurely browned, Song of it buing billed in some flaces but not so much in ollus, Gutierregia, leonium of. to offerely convidently browned but not kelled. Pentsterion, a swall spicers growed. Ribes. Heavily Droward. Elk. a few along belear lever on ord red learner. on golden willows lescenino Foresh afor. 15 (W. D.), Aby R.R. to Wallace R.S. Litgreams tank arig. ona Windlow. Prove to Window and in afternoon auf to Wallace R.S. Lato in afternoon winted Wellow terrick leavyon a few miles from

afr. 15 ton. Wallace RS; alk abundant rights of och wentering in wellows along compan and a few fresh bracks tem. Elle said by fait officers to. levitay, tange for elk, along willow lok. leanyon we found considerable browing of willow learning (red) Populus Plack cottonwood, rose, Sop elder and raspberry. While this drowing is not so very serious where we observed it most Mergrove days if is more throwing how Last year and it is clear that the much of ilk should be cheeped apr. 16 (Thurs), Wallace 85 Sitgreave Not For. More a Trip by auto part Joke Doran Rough out

apr. 16.com to withen about 5 miles of run where we because theek so many times we were forced to them back and returned vea Dye Ranck. Elk. Many vegus of elk were seen al it is affarent day they are numerous and generally distributed westing welldown Jumpers, but elk more municous. Farage Destructure browing of large wellows noted at Daran Ranch and Wolf Ranch alife rose brown I by elk but not distructively Wild lusting . Ewidently in just munders Many organs order four tentres remarkles

apr. 17 (Fri) Wallace R5. Constanticy by auto Fairchild leavyon I to Futig leabin where we stopped for lunch. Telk kumerow brack seen districted Forgs, along Willowlek, noted browing observed on fish wint along Faucheld leavyon considered villow clumps have been browns and have started many oproved which are better off. Some claups of willows have dud esperally in the dayer setrations or along the edges of meadows where the waln table has undoubtelly faller Some eron on medows. asfun reproductive buy howard probably by both rek and dear!

depr. 17 con near Promontory Jawer and too min generally there is lottly widere of extrave browning by elk or der, a good very swall as from Bek. hours sen at fromotory. Tower but few are now ranging m rime about half a dizer our by to faily Wold Turky, Types our w alundance in the modows near every old nauch up to Several turkings much of the sim. party today a little over 2 a victime of the nat, tout land.

Pelinpochamin - May 500 Ty ander pe led proved Step ranger such de we cum sterant today souther son Sitercan forost jumpa in not noticeally the loved aposto forme Mus poure deer Alber via Wintow & Holbrook. Hopfiel en route in jumpe. Felt near Willow lerek Aleobin Fraw. injumper Der. abendant near Willow Bk, Elk. Syns of winding a few oard to rewarm win in summer on moveletae at break down Tehamaebatians, Feed upon to From strung ent of and fresh den loster build trouval bush. Mf. mahogony Swedy browned probably by others near Willowick, but observed of when by during a keyferred of white from the oftenoor

aliff Rose Stock in general do not brown it much Holorook via pands on Sitgeaus Forms. Jotetus lives browned. Hang froh tracks elk feeding in meadow largely on fresh grown and clover. Turkey No vigno al Willen Rawh, elk hours in prye field where they evidually come out at might. Rye rother convidually grazed.

apr. 20 (Mon.), Holbrook & Blue P.O., via Juna, M.M. Lunch with Trons aludo of St. Johns. arrived at Blue, P.O. in lowing, Saw Julius, Becker in Fpringowlle and descented dear situation with him. afr. 21 (Que), From Blue R.S. rode slopes of mountains along wotern Dide & campon and lower olofus of hells on eastern vide. Mule deer, Range in Adenuer high up and in which are summer range of whitelail. Whitetail den Range in Anniver on middle slopes of mountain the southern exporus and redges covered week a rather dive growth of ook,

apr. 21 con apr. 21 (Due,) Blue P.O. Gund area heavily brown in part by domestic block for for calle on other stock now for from rives. Deer White tail on lower dopro. Male deer Munions in offer which is winter range. Mr. Mologany. Heavily drown carde now bing Figure Dig Howard as high as deer ead Mach

afr. 22 (Wed.) another ride John Blue R.S. over slopes along western And & vally up to mean the top well up in Frautin Zue, Growsed by dur, for slock now but forwerly many and considerable erosion has refulled. Telk, Saw vyns of a few men top, number Mule den a for some etter is snow in patches offening Judiz upon grass al other Fineral conditions much as in area covered yuluday, Jungens Jack. This is the common of and the one mort

apr. 22 con. heavily browned, Deer do not browne to very you jumping or much of the beden his which many 87 which are croffed as high as a der can reach. This its probably due to the more the younger fromth, Wh Habogany This is puhaps in this vietin It has been heavily drowned by don block of now buy killed by deer. Farrya, Browsel by dur Sur not at istering as makegony, alfalfa In owall field in Bottom g valley establate come in at might in runders

waking well worn trails under barbed were many enting at the varie found, Wire about 15 inches from ground, Opr. 23 Thurs.), Thousa from blue R.S. to leoper Rauch. Alany rain last night but particly elaring today. Made tip in afternoon over Rawh. to earl of hospen Whitstail der area visible this oflerion is whitetail deer range open for three years. Mr. leoffer days a some concludes hunting has Tele done took Deer eviduely not so abulant as war Blue, expressly on lower stops.

Google ava rat 87 les like most 9 June territory has been hound sown In the part but call Juf is live willing by due than ava war Blue. If showt some due Trowing but this is confined wantly to higher otopu. afr. 24(fiv.). Fromlivefield a long dorp ride through som of Full the toward alina, MM, over Blacktail der range. Blacktail der In Talle Blue Butin blocktail are common or fairly abundant tranga and and Felinelying tolohte are browned, slope are largely open and Thinly could with posto of the area man to Blue.

apr. 24 cm Farage, area visited loday heavily overbrowed by carrie in the past and now bing brown by both deer and calle the grand area bing a equalong range for doth eather and dear, area bally Ofr. 25 (Sat.) From Ecospers Ranch rode general area on both regio on the word only we struck to Foot trail when to nin, cross & K. P. canyon on it end then robe down by trail on nout vide. Whillail dur While not portal der were very numerons In the area could today Forage area covered today is Durmer and winter range for

apr 25 con. whitetail deer, the line bing near the boundary believen Transition and reffer Donorar zmes. Many deer we to window range to a considerable thut in Summer and conditions winter range. In general area deer line can randy be seen hololy month of the state now most four to five years ofo. Situation is not brilian now but may become so in nearfulin. Springroble, arizo

apr. 26 con. blind up along translet of turned up on with through. Varadire a large flat voryen with yellow pive. Funchan troll stream a branch of Translovek. leoning ololonifica. Red willow frowned by by der. Returns through Paradire and turned north rumming to month finally dropping into upperend 5) Foots level canyon along which we returned men to Blue R & lange many by the Fast levek trail. Whitetail den. Daw at book 14 a munber of these in yellow pines in The Paradire area and along the upper fart of tootalk. Garaja Sin utilsalin 8) mh mohozu learners ototorifica, and other oterwas

apr. 26 con. But jumpin me and warmanita, The latter not very abundant, not heavily browned, as in other sections utilization of forge in this down is not of present very verious, Jul Threating to become to. office. R.S. to af springeville prefair refait. to Majdalwa UM. timbed report and left Springeralle about 2 PM with D. a, Shoemaker by anto and arrived Magdalwa UM, about 7 PM. - Roads very wet and theffery.

apr. 29. Mazdalwa to alfuguer goe by aut and both in route to Diever about 8,300 mg about 8,300 mg about noon leontimed from albu, by train to Diever about 430 PM. arial about 10 a.M. to aller Gredator annual and Rodent leontrol Confirme. May 1 - 2 - af Denon. May 3 - Loft Denver on Washington

arrived theory 7,45 PM; left Chi, 830 P.M. May 5. arrived Washington, 4.40 PM.

Davin 10 a.M. 10 a.M. goten Ecout, J. Peris 12 Com · Man Ada, Jame Prixime S. of Williams 1350000 15000000 Jame Prome on leatalines, 90000a, .. Blue 501 000 acres. Qa. Michall Wins Jang, 22 elk liberated on leampfell Bere, 45, 1927, KB, Kartenier, Stab Yame Cem. Thours,

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Hall Reff, Sens plane coyota carriers of amagnest at the evidence of Zack of Anowbox of field on killion on & the befrank willingers to creft imposedle criticism as demonstrated but,